

EXPRESS MAIL MAILING LABEL: EK603122764US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of JIANG et al.
S/N: To be assigned
Filed: Contemporaneous herewith
For: "Monolith Based Catalytic Partial Oxidation Process
for Syngas Production"

Group No.: n/a
Examiner: n/a
Atty. Dkt.: M03A224

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT (37 CFR 1.97)

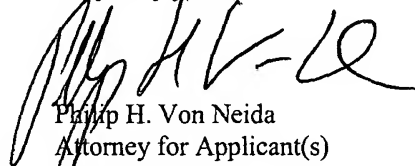
The Examiner's attention is directed to the documents identified on the attached Form PTO-1449, "Information Disclosure Statement by Applicant." A copy of each document is enclosed.

Please consider all the listed documents and list them on the cover sheet of any patents to issue from the subject application.

The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the application other than a Continued Prosecution Application under Section 1.53(d) or within three months of the date of entry of the National Phase of an international application or before the mailing of a first Office Action on the merits or before the mailing of a first Office Action after the filing of a Request for Continued Examination under Section 1.114.

In accordance with 37 CFR 1.97(b), no additional fee is due. As a precaution, the Commissioner is hereby authorized to charge to Deposit Account No. 02-2865 any fee required by this submission.

Very truly yours,



Philip H. Von Neida
Attorney for Applicant(s)
Reg. No. 34,942
(908) 771-6402

Date: SEPTEMBER 8, 2003
The BOC Group, Inc.
Legal Services - Intellectual Property
100 Mountain Avenue
Murray Hill, NJ 07974

Attachments
Form PTO-1449
Cited References

EXPRESS MAIL MAILING LABEL: EK603122764US

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	
		Filing Date	
		First Named Inventor	JIANG et al.
		Art Unit	
		Examiner Name	
Sheet 1 of 2	Attorney Docket Number	M03A224	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 4 492 769	01-08-1985	Blanchard et al.	
	2	US- 4 680 282	07-14-1987	Blanchard et al.	
	3	US- 5 013 705	05-07-1991	Koberstein et al.	
	4	US- 5 965 481	10-12-1999	Durand et al.	
	5	US- 5 023 276	06-11-1991	Yarrington et al.	
	6	US- 2001/0041159	11-15-2001	Tamhankar et al.	
	7	US- 6 051 162	04-18-2000	Van den Sype	
	8	US- 5 510 056	04-23-1996	Jacobs et al.	
	9	US- 5 658 497	08-19-1997	Kumar et al.	
	10	US- 4 048 091	09-13-1997	Barnaba	
	11	US- 5 856 585	01-05-1999	Sanfilippo et al.	
	12	US- 4 522 894	06-11-1985	Hwang et al.	
	13	US- 4 844 837	07-04-1989	Heck et al.	
	14	US- 4 897 253	01-30-1990	Jenkins	
	15	US- 5 368 835	11-29-1994	Choudhary et al.	
	16	US- 5 441 581	08-15-1995	Van den Sype et al.	
	17	US- 5 883 138	03-16-1999	Hershkovitz et al.	
	18	US- 5 976 721	11-02-1999	Limaye	
	19	US- 5 639 401	06-17-1997	Jacobs et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
	20	EP 1 134 188 A2	09-19-2001	The BOC Group	
	21	EP 0 524 643 A1	01-27-1993	Coming Inc.	
	22	EP 0 781 591 A2	07-02-1997	ICT Co., Ltd.	
	23	EP 0 548 679 A1	06-30-1993	Idemitsu Kosan	
	24	EP 0 640 561 A1	03-01-1995	Shell Internationale	

Examiner Signature	Date Considered
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet <u>2</u> of <u>2</u>	Attorney Docket Number	M03A224	

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	25	US- 5 785 774	07/28/1998	Van den Syte et al.	
	26	US- 5 658 497	08-19-1997	Kumar et al.	
	27	US- 5 648 582	07-15-1997	Schmidt et al.	
		US-			
	28	US- 5 580 536	12-03-1996	Yao et al.	
	29	US- 5 232 889	08-03-1993	Blanchard et al.	
	30	US- 4 537 873	08-27-1985	Kato et al.	
	31	US- 4 927 799	05-22-1990	Matsumoto et al.	
	32	US- 6 329 434 B1	12-11-2001	Wen et al.	
	33	US- 6 458 334 B1	10-01-2002	Tamhankar et al.	
	34	US- 5 431 855	07-11-1995	Green et al.	
	35	US- 5 500 149	03-19-1996	Green et al.	
	36	US- 6 254 807 B1	07-03-2001	Schmidt et al.	
	37	US- 6 455 597 B2	09-24-2002	Hohn et al.	
		US-			
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		Country Code ² -Number ⁴ -Kind Code ³ (if known)	MM-DD-YYYY			
	38	GB 1399137	06-25-1975	Ward		
	39	WO 99/48805	09-30-1999	Carpenter		
	40	EP 0 303 438 A2	02-15-1989	Davy McKee Corp.		
	41	JP 11-342334	12-14-99	Nippon Shokubai		
	42	WO 93/01130	01-21-93	Bhattacharya		
	43	WO 98/35908	08-20-98	Jacobs		

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	SINTERED CERIA: A NEW DENSE AND FINE GRAINED CERAMIC MATERIAL by J.F. Baumard, C. Gault and A. Argoitia; Journal of the Less-Common Metals, 127 (1987) 125-130	
	2	"A Comparative Study of Oxygen Storage Capacity Over Ce _{0.6} Zr _{0.4} O ₂ Mixed Oxides Investigated by Temperature-Programmed Reduction and Dynamic OSC Measurements," Hickey et al., Catalysis Letters, Vol. 72, No. 102, pp. 45-50 (2001)	
	3	"Effect of Ceria Structure on Oxygen Migration for Rh/Ceria Catalysts," by Cordatos et al., J. Phys. Chem., 100, 785-789 (1996)	
	4	"Tape Cast Solid Oxide Fuel Cells for the Direct Oxidation of Hydrocarbons," Park et al., Journal of the Electrochemical Society, 148 (5), pp. A443-A447 (2002)	
	5	"Catalytic Partial Oxidation of Methane to Synthesis Gas Over Ni-CeO ₂ ," Zhu et al., Applied Catalysis A: General 208, pp. 403-417 (2001)	
	6	"Catalytic Partial-Oxidation of Methane on a Ceria-Supported Platinum Catalyst for Application in Fuel Cell Electric Vehicles," Pino et al., Applied Catalysis A: General 225, pp. 63-75 (2002)	
	7	K. Otsuka, T. Ushiyama and I. Yamanaka, "Partial Oxidation of Methane Using the Redox of Cerium Oxide," CHEMISTRY LETTERS, pp. 1517-1520, 1993	
	8	E.S. Putna, J. Stubenrauch, J.M. Vohs, and R. J. Gorte, "Ceria-Based Anodes for the Direct Oxidation of Methane in Solid Oxide Fuel Cells," LANGMUIR, Vol. 11, No. 12, 1995, pp. 4832-4837	
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